

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP 2004/004554

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' C07D239/84, A61R31/517, A61P25/28, 25/20, 25/22, 25/24, 3/04, 9/12, 9/00, 25/16, 25/08, 3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C07D239/84, A61R31/517, A61P25/28, 25/20, 25/22, 25/24, 3/04, 9/12, 9/00, 25/16, 25/08, 3/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN/CAS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/20823 A2 (NOVARTIS AZ) 1997.06.12 & AU 9676929 A & ZA 9610020 A	1-48, 52-57
A	GIARDINA, D., et al., "Structure-Activity Relationships in Prazosin-Related Compounds. 2. Role of the Piperazine Ring on .alpha.-Blocking Activity", Journal of Medicinal Chemistry (1993), 36 (6), pp690-8	1-48, 52-57
A	ELSLAGER, E.F., et al., "Synthesis and Antimalarial Effects of N2-aryl-N4-[(dialkylamino)alkyl]- and 4-aryl-N2-[(dialkylamino)alkyl]-2,4-quinazolinediamines", Journal of Medicinal Chemistry (1981), 24 (2), pp127-40	1-48, 52-57



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
28.05.2004	15.6.2004

Name and mailing address of the ISA/JP	Authorized officer	4P	8519
Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Satoshi MORIYASU		

Telephone No. +81-3-3581-1101 Ext. 3452

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	WO 03/028641 A2 (TAISHO PHARMACEUTICAL CO., LTD) 2003.04.10	1-48, 52-57

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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 49-51  
because they relate to subject matter not required to be searched by this Authority, namely:  
Claims 49-51 pertain to a method for treatment of the human body by therapy.
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Formula (I), Q-L-Y-R1, in claim 1 involves a great number of compounds. However, the common structure among those compounds does not appear to be a significant structural element. Therefore, the inventions related to compounds are not deemed to form a single general inventive concept.

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

## Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
No protest accompanied the payment of additional search fees.

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Formula (I), Q-L-Y-R1, consists of 4 parts which are defined broadly and ambiguously and vary immensely. It involves a great number of compounds so that complete search is unable to be done.

Claim 1 is neither clear nor concise.